# PLANET ENW-9503/9504 PCI Fast Ethernet Adapter

## User's Manual

Thank you for purchasing our product!

This guide contains information to install and configure the 10/100 Fast Ethernet PCI Adapter for proper operation. The 10/100 Fast Ethernet PCI Adapter is a 32-bit 10/100 Mbps Ethernet network interface card for PCI local bus-compliant PCs. It supports bus mastering architecture and auto-negotiation which make it possible to use one common RJ-45 port and standard twisted-pair cabling for both 10 Mbps and 100 Mbps connection. Extensive driver support for commonly used network operating systems is also provided.

# Package Contents

Carefully unpack the contents of the package and verify them against the checklist below.

PLANET ENW-9503/9504 10/100 Fast Ethernet PCI Adapter

> 10/100 Fast Ethernet PCI Adapter
> CD Disk (included User's Manual)

Please inform your dealer immediately should there be any incorrect, missing or damaged parts.

If possible, retain the carton, including the original packing materials.
Use them again to repack the product in case there is a need to return it for repair.

Back up your Driver Diskette and use the copy as the working diskette. Do this to protect the original from accidental damage.

# Hardware Description

The ENW-9504 10/100 Fast Ethernet PCI Adapter has a RJ-45 connector and one LED indicator.

LED Indicator

The adapter provides LED indicator for monitoring network conditions.
This section describes the function of LED.

| LED | Color | Status | Description |
|---|---|---|---|
| LNK/ACT | Green | Off | This card is not connect to the network. |
| | | On | This card is connect to the network. |
| | | Blink | Indicate data is transferring and receiving via the port. |
| Duplex | Green | Off | This card is work with half-duplex. |
| | | On | This card is work with full-duplex. |

This LED lights up to indicate the presence of network connection

# Hardware Installation

1. Power off the PCI Local bus PC and remove its cover.
   Please refer to your computer's Installation Manual for instructions on how to remove the cover.
2. Select an available slot and plug in the adapter.
   The adapter provides a 32-bit bus interface. It plugs into any available PCI bus slot that supports Bus Master mode. Remove the bracket on the slot you've selected, then insert the adapter into the slot. Carefully push the adapter into the slot until all the edge connectors are firmly in place. Screw the adapter's face plate onto the opening in the back of the computer to secure the connection. Then replace the PC's cover.

3. Connect your adapter to the network.

Connect the adapter to the network using twisted-pair cabling with an RJ-45 connector.

4. Power on the PC.

After hardware installation has been completed, power on the computer.

5. Change your computer's BIOS setup to enable Bus Master mode and select an IRQ setting.

The setup procedure and the terminology used when referring to Bus Master mode and IRQ parameters may vary with your computer's BIOS. Some BIOS have Bus Master mode enabled for all the motherboard's PCI expansion slots, while others provide the option to turn this feature on or off. Refer to your computer's installation manual for more information. Please see the following section on Adapter configuration for related information.

6. Install the software driver.

For related topics see the section on Software Drivers later in this chapter.

# Specifications

System Configuration

Transmission Technique: Base band

Topology: Star

Transmission Rate: 10 Mbps and 100 Mbps (Auto-negotiation)

Full-Duplex Operation: 10 Mbps and 100 Mbps

Media Type Supported: Cat. 3, 4 and 5 UTP for 10BASE-T

Cat. 5 UTP for 100BASE-TX

Hub-to-Workstation Distance: 100m

Cable Connections: One RJ-45 (socket) for 100BASE-TX and 10BASE-T

Standards Conformance: IEEE 802.3 10BASE-T, and

IEEE 802.3u 100BASE-TX

End-User Devices Supported: PCI local bus-compliant PCs

Data Bus Width: 32-bit

Bus Access: Bus Master

I/O Address: Automatically determined by configuration space

Interrupt: INT A on PCI slot pin assignment, which is mapped to the BIOS IRQ setup

Operating Environment

| | | |
|---|---|---|
| Power Consumption | : | 100BASE-TX |
| | | +5V/360mA (maximum) |
| | | 10BASE-T |
| | | +5V/350mA   (maximum) |
| Temperature | : | 0C to 55C/32F to 131F |
| Humidity | : | 10% to 90% (Non-condensing) |
| Size | : | 123mm x 65mm |

Hardware Certification

| | | |
|---|---|---|
| Certification | : | CE Mark |
| Emissions | : | FCC Class B, VCCI Class 2, CISPR22 |

Class B

| | | |
|---|---|---|
| Immunity | : | IEC 1000-4-2,3,4 |

# Software Driver Support

NetWare ODI Drivers
Novell NetWare 3.12, 4.1, 4.11, 5.0, NetWare LAN WorkPlace TCP/IP,
Novell LAN Analyzer for NetWare, IBM OS/2 Warp Connect

Packet Drivers
FTP PC/TCP, NCSA TCP/IP

NDIS 2.0 Drivers
Microsoft LAN Manager V2.x, IBM LAN Server 4.0, IBM LAN Support,
DEC PATHWORKS V.50

NDIS 3.0 Drivers
Windows for Workgroups 3.11, Windows 95,
Windows NT 3.50,3.51,4.0

NDIS 4.0 Drivers
Windows 95 OSR2,

Windows NT 4.0

NDIS 5.0 Drivers
Windows 98, 98SE
Windows 2000
Windows XP

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*This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1)This device may not cause harmful interference, and
(2)this device must accept any interference received, including interference that may cause undesired operation.

This Federal Communications Commission Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference
in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

# SAFETY INSTRUCTIONS

1. Please read these safety instructions carefully.
2. Please keep this User's Manual for later reference.
3. Please disconnect this equipment from AC outlet before cleaning.
   Don't use liquid or sprayed detergent for cleaning. Use moisture sheet or cloth for cleaning.
4. For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
5. Please keep this equipment from humidity.
6. Lay this equipment on a reliable surface when install.A drop or fall could cause injury.
7. The openings on the enclosure are for air convection hence protect the equipment from overheating. DO NOT COVER THE OPENINGS.
8. Make sure the voltage of the power source when connect the equipment to the power outlet.
9. Place the power cord such a way that people can not step on it. Do not place anything over the power cord.
10. All cautions and warnings on the equipment should be noted.
11. If the equipment is not use for long time, disconnect the equipment from mains to avoid being damaged by transient overvoltage.
12. Never pour any liquid into opening, this could cause fire or electrical shock.
13. Never open the equipment. For safety reason, the equipment should only be opened by qualified service personnel.
14. If one of the following situations arises, get the equipment checked by a service personnel:

    a. The power cord or plug is damaged.
    b. Liquid has penetrated into the equipment.
    c. The equipment has been exposed to moisture.
    d. The equipment has not work well or you can not get it work according to user's manual.

e. The equipment has dropped and damaged.

f. If the equipment has obvious sign of breakage.

15. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT UNCONDITIONED: STORAGE TEMPERATURE ABOVE60(140),IT MAY DAMAGE THE EQUIPMENT.

16. The sound pressure level at the operators position according to IEC 704-1: 1982 is equal or less then 70dB(A).